

Weather Notes - Mch. 1923

Escaped Canary in winter.

Wilton to Summit

Wilton to Downey

Downey to Iowa City.

Iowa City to Hill

Washington co.

S. Johnson co.

Muscatine co.

Louisa co.

Washington co.

Jefferson co.

Henry co.

Jefferson co.

Wapello co.

Monroe co.

Lucas co.

Madison co.

Polk co. } 5/19 1923.

Jasper co. } " "

Poweshiek co. } " "

Iowa co. } " "

Johnson co. } " "

Linn co. 5/21 - 1923

Jones co.

Delaware co.

Clayton co.

Fayette co.

Linn co.

Benton co.

Muscatine co. 5/26, 5/28, 1923

Jones co. 5/30 - 1923

Delaware co. 5/31 " "

Edgewood. " " "

Delaware co. " " "

Muscatine co. 6/1 1923

Louisa co. " "

Des Moines co. " "

Iowa City to Downey 6/2 " "

Wilton to Summit. " " "

S. of Iowa City 7/14 " "

E. of Iowa City 5/19 " "



March 11, 1923 Sunday.

In the evening a very peculiar snowstorm came up. A very strong wind, a heavy fall of snow, and with it thunder and lightning! Trees were broken, and all over this part of the state hundreds of telegraph and telephone poles were broken.

Iowa City had only one out-of-town telephone connection on Monday evening following, and that was to Oakdale.

The fall of snow was several inches, 7 or 8; and it was heavy.

Tuesday evening the only lines out of town were to Cedar Rapids, Des Moines & one other point west. No connections east or south. It snowed about all night.

March 12th Mon.

A bright day, and there was much thawing.

Tuesday 13th was similar.

March 14th Wednesday.

In the afternoon (and really most of the day) it kept snowing - the snow mostly rather fine.

It was heavier towards evening, & the evening was quite stormy again. The snow was very heavy and wet, and a lot of it.

March 15th Thursday.

It was raining at first early in the morning, and then snow fell abundantly in large flakes. At Willm I was told that telephone men were stalled all over the county by this second storm.

They were repairing the damage done by the first.

The morning train up from Kenosha to Willm was stopped a couple of times by drifts.

It rained or snowed all day, and everything was blocked again.

This was a terribly slushy day. The heavy snow was saturated with water, and the streets were puddles & streams of water. The gutters were full, & where no walk across the gutter appeared, it was almost impossible to cross.

I wore my rubber boots in the afternoon.

March 16, Friday.

There was a little thawing,
much ice, and altogether it
was a mild winter day.

March 17, Sat.

Warm and slushy all the
day, especially towards
evening. Got colder & cloudy
at night.

March 18. Sun.

Some time towards morning
it commenced to snow again,
a fine, driven snow, with brisk
wind, mostly from the north.
It snowed until late in the afternoon
(about 4 o'clock) and by 10 P.M.,
the Mercury had dropped to 0.
Real winter!

Miss Cavanaugh called me to
tell me that a yellow bird appeared
at their window, and they were
feeding it. It proved to be
a canary, we opened the window
and it hopped in. It was
shivering like an aspen leaf.
I learned that it belonged to
Mrs. Cannon and had escaped
the day before! It probably
spent the night (not so very cold,
though wintry decidedly) on Cavanaugh's
back porch, - at 527 Renold str.

It was very willing to eat when
the Cavanahs fed it about noon.

Just after I caught it in the
room & put it into a box
with a mosquito netting front,
it clutch the netting, but soon

settled back on a perch which
I put in (a maple twig put across
box, - ends in holes on sides.)
and began to whet its bill
in a jerk way.

It seems to be safe.

(May 12 - see next page)

along RR. between Iowa City & Downey.

<i>Taraxacum</i> - fl.	<i>Angaria virginica</i> fl.
<i>Caprea umbellata</i> fl.	<i>Asperula angustata</i> fl.
<i>Ranunculus reptans</i> fl.	<i>Zizia aurea</i> fl. & buds.
<i>Pedicularis canadensis</i> fl.	<i>Comandra umbellata</i> fl.
<i>Lithospermum canescens</i> fl.	
<i>Antennaria canadensis</i> fl.	
<i>Dodecatheon meadia</i> buds & fl.	

Beyond Downey

<i>Crataegus mollis</i> fl.	<i>Quercus velutina</i> fl.
<i>Shlex dimidiata</i> fl.	<i>Pyrus ioensis</i> fl.
<i>Maianthemum virginicum</i> fl.	

E. of West Liberty

Good patches of *Dodecatheon* fl.
Lithospermum canescens - fl.

E. of Atalissa

Dodecatheon meadia fl.
Pedicularis canadensis fl.
Viola (pedata?) large patches.

May 12, 1923 Saturday

This has been a very dry spring.
Then on the 9th & 10th of May a cold
spell, with frost first night, came
& this was followed by a fine rain
in the night of May 10 & all day
the 11th.

Following plants were observed in
flower, unless otherwise stated:
Wilcox to Sumner's (E. side of RR)

In timbered section - at creek.

Taraxacum -
Crataegus mollis,
Anemone thalictroides
Polemonium virginicum

Cottonwood & other early trees were beginning
to leaf out quite distinctly.
Not much in flower in this
part.

Prairie

- + *Lithospermum canescens*
- + *Zizia aurea* (mostly buds)
- + *Antennaria canadica* - fl. (not staminate)
- + *Juncus erythrospermum*
- + *Fragaria virginiana*
- + *Sisyrinchium campestre*
- + *Viola pedatifida*
- + *Oxalis violacea*
- + *Dodecatheon meadia* fl. & buds
- + *Salix humilis* - fr.
- + *Rediculis canadensis*
- + *Comandra umbellata* - buds & fl.

Prairie - S. of Summit - 2 mi., +, and:

- Hypoxis hirsuta* fr.
- Ranunculus fascicularis*

May 14, 1923 - Monday.

Prairie S. of Summit, - wide track

- + *Lithospermum canescens* fl.
- + *Antennaria canadica* fl.
- + *Dodecatheon meadia* fl.
- + *Pedicularis canadensis* fl.
- + *Salix humilis* fr.
- + *Comandra umbellata* fl.
- Zizia aurea* fl.
- + *Viola pedatifida* fl.
- Oxalis violacea* fl.
- Fragaria virginiana* fl.
- Juncus erythrospermum* (open bank - creek) - buds
- Pinnus virginiana* fl. - bank
- Poa pratensis* fl. (opening)

Prairie between Summit & Wilton - wide Rk.

those marked + above, and:

- Capella furcata* - fl. (at Summit)
- Sisyrinchium campestre* fl.
- Baptisia fruticulosa* bud.
- Hypoxis hirsuta* fl.
- Calceoliflorum* - fl.

Wilton to Moscow - open.

- Antennaria canadica* fl.
- + *Lithospermum canescens* fl.
- Comandra umbellata* fl. - several.
- + *Zizia aurea* fl.
- Comandra umbellata* fl.

m.m.

Oxodactylon meadia fl.

+ Zoroxaen - fl.

moor to Catalina, - + and:

Lithospermum longifolium fl. - sand.
all others prairie.

Viola pedatifida? (may be pedata) - fl.

Radiolium canadensis fl.

Chelidonium to W. Liberty - prairie - O and:

Fragaria virginiana fl.

W. Liberty to Downey

Prairie

woods

Lithospermum canescens fl.

Zizia aurea fl.

Zoroxaen eximius fl.

Oxalis violacea fl.

Fragaria virginiana fl.

Comandra umbellata fl.

Rhus divaricata fl.

Crataegus mollis fl.

Metastelma virginicum fl.

Prairie - Downey to Iowa City

Lithospermum canescens fl.

Oxodactylon meadia fl.

Fragaria virginiana fl.

Viola pedatifida fl.

Radiolium canadensis fl.

Zizia aurea fl.

Comandra umbellata fl.

Cardamine hirsutifolia fl. (wex)

Antennaria canadensis fl.

Along road. Cool.

m.m.

Iowa City to Hills - May 16, 1923 - Wed

Johnston Co

Sandy prairie W. of river

Sisyrinchium campitric fl.

Comandra umbellata fl.

Lithospermum canescens fl.

Sedum humile fr.

Geranium maculatum - fl. near woods

Antennaria canadensis fl.

Prairie just below Hills: alluvial prairie

Zoroxaen eximius fl.

Poa pratensis fl. - coming

Archibaea nuttalliana beds

Zizia aurea beds

Oxodactylon meadia fl.

S. of creek - R. of creek - S. of Old Main Cr. - well in open.

Antennaria canadensis fl.

Washington Co. alluvial prairie - E. of Iowa Jr.

At Riverside prairie - + to Iowa Jr.

Viola pedatifida fl.

Zoroxaen eximius fl.

Zizia aurea fl.

Oxodactylon meadia fl.

Antennaria canadensis fl.

Poa pratensis fl. (coming)

Hypochaeris glabra fl.

Zoroxaen eximius fl.

Sisyrinchium campitric fl. (Riverside)

Capella baccata fl. (Riverside)

Johnson co.

m. m.

River Jc. to Co. line E.

- + *Poa pratensis* fl.
- Geranium maculatum* fl. (near woods)
- + *Eragrostis virginiana* fl.
- + *Sisyrinchium campetris* fl.
- Aster multiflorus* fl.
- Pedicularis canadensis* fl.
- + *Dodecatheon meadia* fl.
- + *Lithospermum canescens* fl.
- + *Zizia aurea* fl.
- + *Comandra umbellata* fl.
- + *Zaroxasium officinale* fl.
- Some red & blue +, and:

Achillea millefolium buds

Hypoxis chlorostachya fl.

Viola pedatifida fl.

" *pedata* *formosa*

Muscatine co.

m. m.

Co. line to Nichols: (old swamp)

Lithospermum canescens fl. few tufts

Sisyrinchium campetris fl. few

The big ditch is dry.

Nichols to Adams - (sandy old lake bed)

- o *Lithospermum canescens* fl.
- o + *Aster multiflorus* fl.
- o *Sisyrinchium campetris* fl.
- + *Poa pratensis* fl. (gr.)
- o *Zizia aurea* fl.
- Comandra umbellata* fl.
- o *Viola pedatifida*
- Zaroxasium officinale* fl.
- Comandra umbellata* fl.
- Hypoxis chlorostachya*
- o + *Eragrostis virginiana* fl.
- Lithospermum longifolium* buds
- Achillea millefolium* buds

Adams to Cedar river + and:

Cedar riv. to Barryfield - o and:

- Geranium maculatum* - near woods.
- Ranunculus reptans* fl.
- Dodecatheon meadia* fl.
- Hypoxis chlorostachya* fl.

A bed of Shunk Cat. S. of RR. on bank (near)

Bayfield to valley near Muscatine

Yellow Blinnia peruviana
Carex peruviana fl.
Lithospermum canescens fl.
Sisyrinchium compertum fl.
Poa arvensis fl.
Andropogon neotenicus fl.
Hypochaeris livida fl.
Geranium maculatum fl. near
 woods

May 17, 1923 - Thurs.

Day bright, but it has been
 cool ever since the frosty spell
 of May 9 -

Left Muscatine at 7:50 am. for Fairbairn

Muscatine co

Muscatine to Fairbairn, sandy

Arnica montana Arnica,
 + *Thalictrum* fl.
Trigonotis virginica fl.
 + *Poa* arvensis fl.
Baptisia leucophylla (hairy) fl.
 + *Lithospermum* canescens? fl.

Louisa co - (+ above, and:)

Wards hills
Andropogon divaricatus fl. - along Big Spring
Geranium maculatum fl.
Phlox divaricata fl.
Oxalis stricta fl.
Lithospermum canescens fl. - bare hills.
Q. macrocarpa fl. + other oaks
Crataegus malus fl.
Q. alba fl.
Geranium maculatum fl.

Come out of plain - more gently rolling than
 a mile or so from Letts (N. P.)
 The rolling hills between here & Big Spring
 break here into rather gently rolling prairie

Letts to Fredonia - somewhat rolling

- prairie
- + *Oxalis stricta* fl.
 - + *Zinnia* *decidua* fl.
 - + *Zizia aurea* fl.
 - + *Asymmetris composita* fl.
 - + *Lithospermum canescens* fl.
 - Viola pedatifida* fl.
 - Baptisia* ^{locust} *leucocarpa* (hairy) bud fl.
 - Pyrus ioensis* fl. (draws)
 - *Hyphoxylon* *terrestris* fl.
 - *Oxalis violacea* fl.
 - Pedicularis canadensis* fl.
 - *Phlox pilosa* fl. low
 - + *Dodecatheon meadia* fl.
 - *Zinnia virginiana* fl.
 - Viola pedata* fl.
 - Ranunculus* ^{yellow} *(in water?)* close to
 - Fredonia (go back to this)
 - Ceranium maculatum* on RR full at Fredonia

Columbus Jc. to Letts + and

- Ceranium maculatum* fl. in open
- Capella* *luna* *portia*
- Salix humilis* fl.
- Cordium* *rhomboides* fl. (wet)

Cotter to Co. line 0 and
commander mulberry fl.
Washington Jc.

Co. line to Ansonia Rolling prairie

- + *Lithospermum canescens* fl.
- + *Dodecatheon meadia* fl.
- + *Oxalis violacea* fl.
- + *Poa stricta* fl.
- + *Zinnia virginiana* fl.
- + *Zinnia* *decidua* fl.
- + *Achillea millefolium* buds
- + *Comandra mollis* fl.
- Ceranium maculatum* fl. - words not very far.

Ansonia to Washington - + and above

- Cornus amomum* fl. (Ansonia with)
- Phlox pilosa* fl.
- Ranunculus reptans* fl. (low)
- Zizia aurea* fl.
- Asymmetris composita* fl.
- Viola pedatifida* fl.
- Viola pedata* fl.

- Sedum spaldingii* *canadense* fl.
- Baptisia leucocarpa* (hairy) fl.
- Salix humilis* fl.
- Hyphoxylon terrestris* fl.
- Asymmetris composita* fl.
- (Wh.) *Thlaspi* *(broad fr.)* - fl.

a fine piece of rolling prairie within 2 or 3 miles of Washington & running to Washington.

The Territory between Ainsworth
 & Washington is rather gentle
 Kansan. Only here & there
 along the two forks,
 there is a fringe of trees &
 shrubs along a creek.

Oxalis violacea is very common,
 mostly in patches.

From Columbus Jr., - after we
 get out on the plain, it is
 rolling (rather gently) prairie,
 broken at first by thickets &
 patches of timber. This continues
 much the same to Washington.
 Some of the prairie along the
 RR is fine here, and is
 worth a few trips.

Washington to Verdi

Rolling prairie with strips of timber
 { *Philox diversifolia* fl. } in woods
 { *Geranium maculatum* fl. }
 in open.

Viola cucullata fl.
 + *Oxalis violacea* fl.
 + *Pod. dentata* fl.
 + *Dod. cathartica* fl.
 + *Lithospermum canescens* fl.
 + *Sisyrinchium campense* fl.
 + *Viola heterophylla* fl.
 + *Lamium* fl. fl.
 + *Hypoxis hirsuta* fl. rather low.
Cardamine hirsuta fl. wet fl.
 at Verdi a wooded creek valley:

Verdi to Bright

and
 { *Hamamelis* fl. } *Amelanchier* fl.
 { *Crataegus mollis* fl. } *Crataegus mollis* fl.
 { *Pyrus virginica* fl. } *Pyrus virginica* fl.
 { *Red bud* fl. } *Red bud* fl.
 { *Bupleurum* fl. } *Bupleurum* fl.
 { *Philox purpurea* fl. } *Philox purpurea* fl.
 { *Antennaria* fl. } *Antennaria* fl.
 { *Geranium maculatum* fl. } *Geranium maculatum* fl. (woods not near)
 { *Corydalis* fl. } *Corydalis* fl.

Jefferson co

m m.

County line below Brighton to
E. Pleasant Plain - rolling prairie
(diff. in soil at some places?)

Poa patens fl.
Zinnia fl.
Antennaria nasuta fl.
Sisyrinchium complanatum fl.

E. Pleasant Plain to Perlee

Poa patens fl.
Zinnia fl.
Sisyrinchium
Lithospermum

(wooded along creek)
Geranium maculatum fl.
Idem fl.
(rough a lot of ants - more or less
trampled - walk fl. this.)
Open country *multicellulata* fl.

This is really all
rolling, with timber in
valleys. Very little
prairie.

m. w.

Perlee to Fairfield

at first some timber (much cleared)
then rolling prairie - rather rough.

Poa patens fl.
Achillea millefolium bud.
Yellow cnicus fl.
Geranium maculatum fl. not far
Oxalis violacea fl.
Zinnia fl.
Fragaria virginiana fl.
Sisyrinchium complanatum fl.
Lithospermum caninum fl.
Fragaria virginiana fl.
Viola pedatifida fl.

Buggy place towards Fairfield
looks as if it had *Cypripedium* *caudatum*!
This is just where we come up on
the general prairie
Lysichiton fl.

Jefferson Co. m.m.
 Along C & O N. side of RR.
 Fairfield to Beckwith

- o Geranium maculatum fl. woods not far
- o + Taraxacum fl.
- + Hieracium canadense fl.
- o + a Rosa pratincola fl.
- o + Oxyalis violacea fl.
- + Euthysanthes canescens fl.
- o + Oxyria annua fl.
- Phlox pilosa fl.
- Pedicularis canadensis fl.
- Achillea millefolium fl.
- Hypoxis hirsuta fl.
- Viola pedata? fl.

N. of Beckwith are only a few small patches of prairie, but there are good RR. sides of way largely graded, weeds!

Beckwith to Glendale + and:

- Disyntherisma cuneata fl.
- o a Fragaria virginiana fl.

Glendale to Lockridge o and:

- Ranunculus flexuosus fl.
- a Potentilla canadensis fl.

this is all rather poor - most disturbed, covered with weeds

Lockridge to Co. Line (about 1 1/2 mi)
 a + following!

Henry Co.

Co. Line to Rome (2 miles)

- Phlox pilosa fl.
- Geranium maculatum fl. (not far from woods)
- Fragaria virginiana fl.
- Potamogeton amplifolius fl.
- Bromus tectorum

Mounts the hills are denuded & badly eroded, poor soil here.

To Rome all poor - no good pieces of prairie. The region just around Rome is not very hilly.

Much of the disturbance along the RR. is due to former attempts at cultivation. Mostly weeds & corn.

Rome to Mt. Pleasant

To river nothing worth while.

Potentilla canadensis fl.
Grass ~~virginica~~ fl.
Very poor prairie
in this stretch.

Sisyrinchium campitric & *Lithospermum*
canadensis in fl. near Mt. Pleasant

Mt. Pleasant to New London

Senecio paludosus fl.
Veronica umbellata fl.
Sisyrinchium campitric fl.
Lithospermum canadensis fl.

Grass ~~virginica~~ fl.
Oxalis violacea fl.

Galium pilosum fl.

Cypripedium fl.

Grass ~~virginica~~ fl.

Hypoxis livida fl.

Ranunculus septentrionalis fl. (by)

Comandra umbellata fl.

Potentilla canadensis fl.

Poa pratensis fl.

Mainly a good upland plain.

Some prairie bits, but mostly

broken up - some old cultivation.

The RR. right of way looks to me
narrower than is usual northern
and the double track takes up much
of the space. This leaves narrow
strips (mostly) - this does not seem to be
uniform, - perhaps the farmers encroached.
The numerous cuts & shiftings have
resulted in much disturbance of
the natural surface; also cultivation
of RR. right of way in some places.
There is therefore but little native
prairie in this part.

In the evening I talked in the
High School Gymnasium to an audience
of nearly or fully 800. The class
numbered 31, - 12 boys 19 girls.
Stopped at City Hotel, - a rather
poor excuse for a hotel.
A good morning town.

May 18-1923 - Friday
Left New London at 6¹⁰ am
(fare 5.55), going W.

Henry Co.
New London to Mt. Pleasant

Took S. side of track,
There is a little prairie on
this side, especially out about
half way, but the surface
is mostly disturbed. Quite a
bit was evidently once cultivated
(during war), but is now weedy,
and some parts were graded.

This does not have as many cuts, -
runs on upland plain.

Mt. Pleasant to Fairfield - S. side -
To Rome

Surface much broken some cultivated
some graded and some with stuff
piled up from cut, - There are also

good-sized hills. White Sweet Clover
is very prominent as a weed. Not in fl.
The cuts are well overgrown, - with
irregular road. There are several
rather large ones on this stretch.
Much of the timber is cut. Several
old cultivated strips are now overgrown
with sprouts & young weeds.

Rome to Lockridge - cultivated strips III
some big cuts - Get rougher W. of Rome.
Most of these cut back to line of right of way,
but seem to come close to surface.

Practically no prairie on this side.
Jefferson Co
Lockridge to Beechworth cultivated strips III

Right of way crossed by fences most of the way.
Mostly narrowed, or graded & cut.
Very few small bits of prairie.
Very little undisturbed surface
in this section.

Beckwith to Fairfield - crest strips III

Toward Fairfield more cut & some
timber. Only a few bits

of prairie, much as before.

Fairfield to Bernhart ~~strips~~

Near Fairfield a high level plateau.

Westward somewhat cut & with some timber,
much of it cut, showing stumps.

Several cuts - some good-sized.

Almost no prairie. Cut as before.

Bernhart to Bataavia - Crest strips II

In ^{crest} (river) region more or less timber.

Again but little fit for
cultivation, but much disturbed

by grading & cutting.

There are only a few bits

of prairie, - not at all

conspicuous, or even worth

while

Wapello co

Co. line $\frac{1}{2}$ mi. W. of Bataavia to Agency City
Drift again comes to, or close to, surface.

Cultivated strips III III

In all the area then far covered a few
prairie plants appear on the

graded & cut places, but there
no distinct prairie turf. The wet

places are few & small, & mostly
limited to the narrow valleys or draws.

Notable species of plants fl.

Hypoxis aurea fl.

Lithospermum canescens fl.

Fragaria virginica fl.

Sisyrinchium canescens fl.

Scilla maritima fl.

Conditions again much the same.

Much of this is a fine level plain,
high. Only a few bits of prairie.

Melilotus alba everywhere! Where
valleys or ravines are cut there is a little
timber.

at Agency City more cut &
with quite a bit of timber
Agency City to Ottumwa - cultivated &
Drift more buried here (not less?)
Country quite cut up & more or
less timbered, but much of timber
is cut. Stumps left. Soil
looks poor.

Stuffs on drift here surely not
loess! We are dropping down to
the Des Moines!
Practically no prairie in this section.

Ottumwa to Chillicothe

The RR runs on river bottom.

Wooded border
Philop. divaricata fl.
Spermin. montana fl.
Prunus virginiana fl.
~~*Prunus americana* fl.~~

Seems to be no prairie
noticed no cultivated strips.

Chillicothe to Co. line 1 mi W. of Dudley.
RR. turns W. along valley of Avery cr.
towards Dudley.
Nothing specially worth while here.

Monroe co.

Chillicothe to Frederic

Follows general course of valley, cutting
here & there, more or less interrupted
timber. Much cleared, some looks good.

Frederic to Avery

Much clearing has been done, especially
on the slopes. Many stumps remain.

Prunus americana in fl.

Pyrus ioensis fl.
Crataegus virginica ? fl.

Quercus macrocarpa fl.
Avery to Maxon

We come out on the uplands

Some prairie, not prominent or distinct
Antennaria canadensis fl.
Sisyrinchium canadense fl.
Tragopogon virginicus fl. very com.
Poa pratensis fl.

Mary & Albion

For short distance we run on
high plain. Then surface breaks
& we drop down a very little
into Albion.

Albion to River

Surface broken. Was evidently
heavily timbered, but now largely
cleared.

Salix humilis fr. - on banks of crk,
River to Melrose

We get well down into valley &
run along timber (now broken)
bottom land for several miles,
along creek.

Volcan. divaricata fl.
Geranium maculatum fl.
(Chim. was Lysichiton)
Buckeye fl.
Rumex crispus fl.
Antennaria multiflora fl.
" Menyanthes fl.

We have been running on a
crack valley, - more or less wooded,

and in places much cleared.

There are, however, fair pieces
of both bottomland & slope timber,
Melrose to Russell.

The valley narrow, but is otherwise
much the same. Perhaps more timber
has been cleared here. We are
evidently ascending slowly.

Prunus virginiana fl. } in an open
Geranium maculatum fl. } bank

We are still climbing, the valley
narrow & timber diminishing.
Nearly at top of high level
Prairie strips on knolls along pt.

Lithospermum canescens fl.
Baptisia bracteata fl.
Comandra umbellata fl.
Fragaria virginiana fl.
Pedicularis canadensis fl.
Viola pedata fl.

A nice bit of prairie just E. of first
cross-road E. of Russell. Viola pedata
& Pedicularis especially abundant.

Lucas co

Russell is well up in plain

Russell to Chanton

We run on a fine high level plain.
This was all prairie.

Scirpus platensis fl
Lithospermum canescens fl
Triglochin virginicum fl
(I found with *Zizania* in fr.)
Sisyrinchium compositum fl
Vilfa parviflora fl
Poa pratensis fl

Not very good. Surface disturbed
by grazing, cutting, & heaping up earth.
Many weeds, much *Melilotus alba*.
Prairie in small, mostly indefinite
fragments.

RR keeps well up on plain into
Chanton. Right at Chanton
the surface is somewhat
broken.

Chanton to Lucas

We run out immediately on the
high level plain, & this is
somewhat broken by shallow
valley cuts into it.

Some of the bits of prairie are quite good -
though much is broken, - weeds! - *Melilotus alba*!

Lithospermum canescens fl
Triglochin virginicum fl
Poa pratensis fl
Hypoxis aurea fl (rather low)
Asperula campestris fl
Vilfa cucullata fl

Another broken place, - quite a bit of woods,
Comandra umbellata fl

We are dropping down into this
timbered country. Much now cut
or cleared, especially on slopes & tops.

I see one lilac bush, - not
near a house, - in fl.

We run along bottomland for some
distance to Lucas.

cleared.

Lures to Woodburn

On bottom land, for some distance, then we begin to climb up gradually.

Country somewhat broken, much of it cleared of timber. Stumps remain.

Woodburn is still in a

valley, but well up

Darke Co

Woodburn to Osceola

We are still going up. The hills are practically cleared of timber.

Poor land & poor pasture!

We are now getting well up on plain. Some deep cuts in the rolling surface. A little prairie here & there:

Fragaria virginiana fl.

Comandra americana fl.

Lithospermum canescens fl.

Sisyrinchium campetris fl.

Poa pratensis fl.

Lithospermum canescens fl.

Small bits of prairie cling tenaciously, if only surface not broken.

The timber is mostly gone. Some red.

Murray

Many weeds.

Poa pratensis is not generally (or rarely even) on the site of original prairie.

This area is somewhat rolling, more nearly an approach to ordinary Kansan.

Kansan.

Osceola is in this gently rolling plain.

Osceola to Murray

rather gently still on the rolling Kansan plain. Soil comes quite to surface (except soil).

Some prairie:

Praptura hirsuta fl.

Oxalis violacea fl.

Lithospermum canescens fl.

Viola pedata fl.

Sisyrinchium campetris fl.

Fragaria virginiana fl.

A lot of *Carex* in fl. in wet places.

Adiantum canadense fl.

Viola pedata fl.

Carex *zosterifolia* fl.

This section has some good pieces of prairie. - More than I saw anywhere along line today, - to this point.

Murray is up on the gently
rolling plain.

Murray to Thayer

capitula - *capitata* fl. *capitata* fl.
grows quite a bit rougher. *capitata* fl.

I saw *Engelmia* *capitata* fl.

This is real rolling prairie!

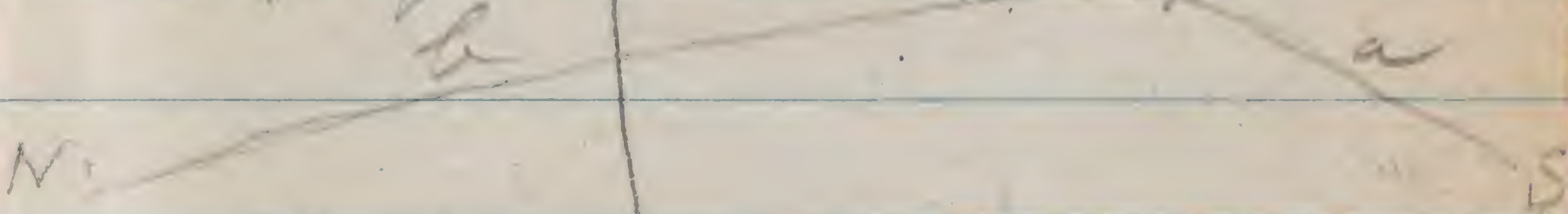
Some prairie birds scattered

along. Quite a lot of timber near Thayer.
Union Co Thayer to C. M. W. Crossing after

Rough rolling country. Quite a
lot of timber but none evidently
recent.

Some prairie birds near Thayer

The ridge E. of C. M. W. just
where it enters the hills E. of
after Jc. is an oak bar.
It is rather thickly covered with
bar oak, white oak & some hickory.
Its profile is this, looking E -

N.  S.

The north slope is gradual, hence
subject to drying. Bar oak is
more abundant on the slope a.
At the top there is some
Chinquapin oak - in flower, as
are the bar & white oaks (the
latter older).

The small plants are nearly
all prairie plants. A
few individuals, like *Dicentra*

Visit in again.

The ridge is really a little

S.W. of Afton Jc.

S. of Afton Jc., nearly is
a cut, with leveled, graded flat
at its base, - on E. side of track.

Prairie seems to have spread
over this and I collected the following
in flower, etc.:

Lithospermum canescens fl.
Sisyrinchium campustum fl.
Comandra umbellata fl.
Viola pedatifida fl.
Potentilla canadensis fl.
Carex —
Antennaria nasiformis fl. (ov)
Fragaria virginiana fl.
Dracopis bracteata fl. & bud
Oxalis violacea fl. some white
Achillea millefolium - bud

also observed other young plants of
prairie species,

Go to this again!

I also collected a small set of
plants on the gravel roadbed
on hill S. of Afton Jc.

Potentilla canadensis fl.

Ellisium angustifolium fl.

Lithospermum canescens fl.

Oxalis violacea fl.

Delphinium (deep blue) fl. 1

(see list.)

The day is clear & quite warm.

Just S. of Afton Jc., + on E. side,
off the right of way there

are a couple of trees that
look like *Quercus Schumacheri*.

They are some distance apart, but
near the right of way.

Other oaks, - bur, white, black,
are in bloom, & I also saw
a whinewort at some distance.

Left Astoria via C. & G. W. at
3¹⁰ PM. for Peru.

Astoria to Talma - riparian bank
Lithospermum canescens fl.
Comandra umbellata fl.
Sisyrinchium campense fl.
Sisyrinchium campense fl.

Talma to Monette

Barren, grassy, etc.	Natural grass
<i>Viola pedatifida</i> fl.	<i>Sisyrinchium campense</i> fl.
<i>Fragaria virginiana</i> fl.	<i>Lithospermum canescens</i> fl.
<i>Delphinium</i> (blue) fl.	<i>Fragaria virginiana</i> fl.
<i>Sisyrinchium campense</i> fl.	<i>Oxalis violacea</i> fl.
<i>Antennaria dioica</i> fl.	<i>Hyssopus hyssopus</i> fl.
<i>Hyssopus hyssopus</i> fl.	<i>Galium trachelium</i> fl.
<i>Viola pedatifida</i> fl.	<i>Viola pedatifida</i> fl.
<i>Lithospermum canescens</i> fl.	<i>Antennaria dioica</i> fl. (2)

Monette to Lorimer. + and?
(not very good)

Monarda fl.
Fragaria virginiana fl.

Lorimer to Barney

<i>Fragaria virginiana</i> fl.	<i>Viola pedatifida</i> fl.
<i>Sisyrinchium campense</i> fl.	<i>Viola pedatifida</i> fl.
<i>Sisyrinchium campense</i> fl.	<i>Comandra umbellata</i> fl.
<i>Lithospermum canescens</i> fl.	<i>Lithospermum canescens</i> fl.

In wet place above Lorimer I saw
Curcuma rhomboides fl.

Madison Co.

Barney to Peru

all this has been rough rolling
Karron, some woods,

Gerardia hirsuta buds fl. - on bank
Phlox divaricata woods
Sisyrinchium campense fl.
Lithospermum canescens fl.
Fragaria virginiana fl.
Viola pedatifida fl.
Comandra umbellata fl.
Viola pedatifida fl.
Crataegus mollis fl.
Pyronia fl.
Prunella fl.

Reached Peru at about 4 PM. &

put up at the rooming house.

The original Delicious Apple
tree is located about 2 mi.
from Peru, O.; but has been
marked.

May 19, 1923 Sat.
Left Perm at 5:37 am. It
thundered & threatened rain, & it
did rain north of Perm.

Reached Des Moines at 6⁵⁰ am
& found Rock Island Gate. Left
at 8 am. (instead of 7:05)

Along Rock Island I noticed:
Rockies

Altona
+ Ranunculus reptans fl. (low)
+ Lithospermum longifolium fl. on prairie
+ Fragaria virginiana fl.
+ Sisyrinchium campense fl.
+ Viola pedatifida fl.
+ Comandra umbellata fl.
+ Baptisia fruticulosa fl. & buds
+ Hypericum punctatum fl.
+ Zizia aurea fl.

Altona to Middleville - and:

Oxalis violacea fl.
+ Cardamine hirsuta fl. wet
+ Viola pedatifida patch, prairie
+ Pedicularis canadensis fl. com.
+ Zizia aurea fl.
+ Rhus typhina fl.
+ Phlox pilosa fl. (new)

m.m.

Johnson 20

May 1st of prairie along R.R. E. of

Oxford covered

- Lithospermum | canescens fl.
- Syntherisma | composita fl.
- Myrica | carnea fl.
- Phlox pilosa | fl.
- Salix humilis | fr.
- Rhus glabra | fl.
- Dodecatheon | meadia fl.
- Hypericum | punctatum fl.

At 2 PM near E. side of RR
on prairie

- | | | |
|--------------|------------|-----|
| Syntherisma | composita | fl. |
| Polypodium | virginicum | fl. |
| Lithospermum | canescens | fl. |
| Hypericum | punctatum | fl. |

along RR near 15 miles west of East

m.m.

To Arlington May 21, 1923, Mon.

Left Cedar Rapids at 5:45 am.

A cool morning, - bright.

To Marion

- + Phlox pilosa fl. juv
- o 2 Liatris pycnostachya - do fl. Falcata
- + Pon. pratensis - fl.
- a Podophyllum peltatum - esp. of woods fl.
- a. Lysichiton cuneatus " " fl.
- Antennaria plantaginifolia " " fl.
- Achillea millefolium - bush.

Prairie - except along creek at Paralta
Marion to Paralta + and:

- Poor 2 Lithospermum canescens fl. not rising
 Hemlockia tripartita buds
 Lithospermum longifolium fl. rising

Paralta to Springville - 0 and:

- canth. 11 a 2 Taraxacum fl. not rising
 caprea fl.
 Poor Rhus glabra - stems
 2 Zizia aurea fl. - z and.

Springville to Vida - z and:

- ~~Springville to Vida~~
 Scirpus cespitosus fl. Good here!
 Dodecatheon
 Aedonagrion
 Viola pinnatifida fl. sandy

Vida to county line - a and:

- Agrostis nemoralis fl. woody
 Phlox pilosa fl. bank
 Salix humilis fl.

Jones Co.

m. m.

Stone City to Anamosa

mostly timber

Anamosa to Langworthy, ^{now 9} ~~Crest~~ ^{pp} ~~steps~~

Salix humilis fl.
Geranium maculatum fl. 1. clump. open pr.

+ *Lithospermum canescens* fl.

+ *Viola pedata* fl. 1. sandy.

+ " *pedatifida* fl.

Oxalis violacea fl.

+ *Pedicularis canadensis* fl.

Dodecatheon meadia fl.

Ranunculus abortivus fl. - rather low

Thalictrum flavum fl.

Equisetum arvense sterile.

Trifolium aureum fl.

+ *Nyctaginia bistrata* fl.

Antennaria racemosa fl.

+ *Taraxacum* fl.

Langworthy to Monticello, ^{and} ~~and~~

Polemonium patens fl.

Yucca caroliniana fl. - *Brassica*

Chelidonium majus fl.

Fragaria virginiana fl.

Monticello to Co. line - near junction North O and

Hesperis matronalis fl.

Senecio platensis fl.

Calla palustris fl. - bog.

and m.

Delaware Co.

cut, 1

Co. line to Hopkinton

Salix humilis fl.

+ *Lithospermum canescens* fl.

Viola pedata fl.

+ *Pedicularis canadensis* fl.

+ *Dodecatheon meadia* fl.

+ *Taraxacum* fl.

mostly prairie

Hopkinton to Delhi

cut. 1

Taraxacum fl.

+ *Lithospermum canescens* fl.

+ *Antennaria racemosa* fl.

" *pedatifida* fl.

Pedicularis canadensis fl.

Claytonia virginica fl. - woods.

Ranunculus reptans fl. - low

Centaurea mollis fl. - woods

mostly river bottomlands.

+ *Pyrus ioensis* fl.

Quercus velutina fl.

Dodecatheon meadia fl.

Pyrus virginiana fl. - bank

Trifolium aureum fl. - buds.

+ *Comandra umbellata* fl. - bud

Aspidistra canadensis fl. - limestone ledge.

+ *Senecio platensis* fl.

Pyrus ioensis - no fls. - low grow.

Delhi to Delaware + (this part) and

Sisyrinchium confertum fl.

Equisetum arvense sterile.

Viola pedata fl.

Hesperis matronalis fl.

Calla palustris fl. - bog.

Delaware to Oneida

- mainly all ^{dry} sandy - low
- o + Lithospermum canescens fl.
 - o + Taraxacum fl.
 - o + Pedicularis canadensis fl.
 - o + Hypoxis hirsuta fl.
 - o + Viola pedata fl. sandy
 - o + " pedatifida fl.
 - Senecio lugens fl.
 - o + Antennaria veridica fl.
 - Ranunculus repens fl. low
 - o + Sisyrinchium canescens fl.
 - Achillea millefolium fl.
 - Fragaria virginiana fl.
 - + Dodecatheon meadia fl.
 - Thalictrum dasycarpum fl.
 - Prunus americana fl.

Oneida to Greeley. (thin soil) and:

- met. 1119
- Sisyrinchium canescens fl.
 - Gaxifraga pensylvanica fl. low

Greeley to Edgewood (Co. line) o and

- alt. 111
- Oxalis violacea fl. low
 - Caltha palustris fl. low

Clayton Co

met. 111

Edgewood to Strawberry Pt.

- Taraxacum fl.
 - + Lithospermum canescens fl.
 - o + Hypoxis hirsuta fl.
 - + Viola pedata fl.
 - + " pedatifida fl.
 - Pedicularis canadensis fl.
 - + Antennaria veridica fl.
 - Sisyrinchium canescens fl.
 - Dodecatheon meadia fl.
 - Achillea millefolium fl.
 - Sisyrinchium fl.
 - Fragaria virginiana fl.
 - + Oxalis violacea fl.
 - Ranunculus repens fl.
 - + Prunus americana fl. - old - bank
 - Erigeron fl. - many!
 - Saxifraga pensylvanica fl. - "
 - Geranium canadense fl. - open
 - Equisetum arvense fl.
 - Comandra umbellata fl.
 - Ranunculus fl.
 - Caltha palustris fl. - wet
 - Galium aparine fl. - open
- Strawberry Pt. to Co. line + (above) and:

- Sisyrinchium fl.

Fayette co

Co. line to Arlington

Lichospermum canescens fl.
Viola pedata fl.
 " *pedatifida* fl.
Hypoxis hirsuta fl.
Zuccasium fl.
Antennaria neobolina - old fl.
Parnassia com.
Fragaria virginiana fl.
Oxalis violacea
Sisyrinchium campetum fl.
Pedicularis canadensis fl.
Comandra umbellata - bush fl.
Syringa amara bush
Asarum canadense fl. com.

Reached Arlington at about 10 am
 & was met by Mr. & Mrs. Gleim, &
 taken to their home. She was a
 classmate of Bertha & Ella. She
 has 1 girl (7) & 1 boy (2). Mr.
 Gleim is in the furniture business.
 I looked at their wild flower garden.
 They have a lot of local material
 such as *Osmunda Claytonia* (fr.)

Aspidium speciosum, *Oxalis violacea*,
O. struthifera, *Cystopteris bulbifera*,
C. fragilis, *Adiantum pedatum*,
Anemone filix foemina, *Geranium*
maculatum, *Hydrophyllum virginicum* (fr.)
Cypripedium pubescens (fl.), *Mitella*
strobilata (fl.) *Monarda grandiflora* (fl.)
Isopyrum biternatum (fl.)

In the afternoon we walked 1 1/2
 miles along the RR north. Miss
 Youngman and her class & Mr.
 Gleim went along.

There are still little remnants
 of prairie, and I collected:

Lichospermum canescens fl.
Viola hastata fl.
 " *umbellata* fl.
 " *pedatifida* fl.
 " *pedata* fl.
Oxalis violacea fl.
Hypoxis hirsuta fl.
Sisyrinchium campetum fl.

m.m.

Fragaria virginiana fl
Gnaphalium umbellatum bud
Phlox pilosa bud
Dodecatheon meadia bud & fl.
Pedicularis canadensis fl
 (umbellifer - bud)
Antennaria dioica old fl.
Carex vestucaria fl
 " fl.
Zizia aurea fl & buds
Equisetum arvense

This prairie is on Iowan drift.

We then drove (Mr. & Mrs.
 Stein, their little girl, and I)
 to woods bluffs along creek
 N. of Arlington.

Collected:

Aquilegia canadensis fl. - on rock
Asarum canadense fl
Arisaema triphyllum fl
Isopyrum biternatum fl
Ranunculus abortivus fl bottom timber
Geranium macranthum fl
Prunus pennsylvanica fl - towards edge
Viola (corvina?) fl. - woods
Juglans nigra fl.

Saxifraga hypnoides
Pibes graciles - fl. fl. m.m.

also observed:
Acer saccharum
 " *saccharum*
 " *Negundo*
Ulmus americanus
 " *Fulus*
Fraxinus viridis
Celtis occidentalis
Juglans nigra
 " *cuneata*
Lilia americana
Prunus americana fl
Eryngium atriplicifolium
Populus grandidentata juv.
Acer rubrum
 " *rubra*
 " *alba*
 " *macrocarpa*

In the evening I gave my talk
 on "The Citizen & the School."
 Class number 8, - 3 boys & 5 girls
 Audience attentive, & filled the school
 hall, -

Mr & Mrs Stein drove to Orleans
 with me. We went by way of
 Maynard. It rained a little.

May 22/92) Tues.

Left Delwin for Waterloo at
1.55+, via the C. & W. Arden
at 3 AM, and wrote for
6³⁰ AM. Intention for Cedar
Rapids and Iowa City.

Saw a few *Vicia pedata*
in flower. At a point about
at La Fayette, ^{Rich co} on W. side of
track, I saw some yellow &
reddish plants in flower. Do
not recognize, them probably
introduced.

m.m.

May 24, 1923 - Thurs.
To Montom. It has been
cool & cloudy today, & cool all
day.

Left Iowa City at 12 noon.
Saw 2 groundhogs at hole along
Interstate north of Prairie creek
& still farther N. a single
Franklin's gopher (gray) - went
into hole.

Linn co

Prairie

Left Cedar Rapids at 2:40 PM for Montom.
Cedar river to Fairfax Crest.

T	Phlox pilosa	fl.	mostly light	very com.
+	Lygia aurea	fl.		not rare
+	Dodecatheon	meadia fl.		not rare
	Antennaria	meadia fl.		palatiss.
+	Lithospermum	canescens fl.		several
+	Sisyrinchium	campanulatum fl.		com.
+	Comandra	umbellata fl.		palatiss.
+	Senecio	aureus		patch

Fairfax to Norway + and.

Prostria fruticulosa fl. 1 cul.
Rudiculis fl.
Sax. humilis fr. fl.

m.m.

The section between Fairfax and
Norway is very fine, & Phlox (mostly all white) is very abundant.

Benton co

Norway to Watkins Crest.

0+	Phlox pilosa	fl.
20+	Lygia aurea	fl. & buds.
0+	Dodecatheon	meadia fl.
20+	Lithospermum	canescens fl.
0+	Sisyrinchium	campanulatum fl.
0+	Comandra	umbellata fl. & buds
0+	Prostria	fruticulosa fl. buds
+	Hypoxis	humilis fl.

Watkins to Blairtown + and:

	Senecio aureus	fl.
	Pedicularis canadensis	fl.
20	Sax. humilis	fr.

Blairtown to Lugerne 0 and:

Ranunc. reptans fl. low.

Lugerne to Belle Plaine 2 and:

Beyond Long Point (W.) a small pond
contains Ranunculus multifidus in
flower.

m. m.
May 26, 1923 Sat.

Drove to Muscatine co. with
Jepps, Kathie, & Misses Hersch. Martha.
The morning is clear, but the
night was cool.

We drove first to a point 1 mile
S. of Wilton, along RR., and then
walked S. into the cut.

I collected plants on native prairie
along RR. (See next page)

I also collected a small set of
prairie plants on the walls of the cut,
where no foreign plants appear
(See the set.)

We then drove back W. a mile,
& north and east, a mile each,
to a point 2 miles S. of Wilton. This
is quite sandy (n. & crossing - end cut)
We then drove to Summit, &
found the prairie just S. good.

Willm - 1 mi. S. - Ill. prairie (native)

along RR. (see spec.)

Phlox pilula fl.
Lithospermum canescens fl.
Sisyrinchium angustifolium fl.
Hypoxis hirsuta fl.
Oxalis violacea fl.
Anemone nemorosa ab fl.
Aschillea millefolida
Carex vesicaria fl.
Viola pedata fl.
Smilacina stellata fl.
Solidago nemoralis fl.
Senecio latifolius fl.
Potentilla canadensis fl.
Podocanthus nudus fl.
Viola hastata fl.
Tragopogon virginicus fl.

Willm - 2 mi. S. - Ill. prairie (native)
Lithospermum canescens fl.
Viola pedata fl.
Lithospermum canescens fl. (less sandy)

Just S. of Summit. Native prairie

Podocanthus nudus fl. very common
Sisyrinchium angustifolium very com.
Hypoxis hirsuta very com.
Tragopogon virginicus fl.
Bracteantha bracteata fl. rare
Comandra americana fl. com.
Viola pedata fl.
Viola hastata fl.
Lithospermum canescens fl.
Phlox pilula fl. com. (all red)
Oxalis violacea fl.
Carex vesicaria fl.

along the track near Summit is a
clump of very yellow-stemmed willow
in fruit (see spec.). This was on
the RR. road-fill. This willow
occurs along the RR. at other points.

We left Miss Mantle at Summit,
to take train, and we drove
across the Illinois prairie to the
Pontederia pond. Most of the

m.m.

undulation in this part, especially towards the pond, is of the dune type, and sand is in evidence in many places.

The Portlands Pond N. of Bayfield has little water in it. Around the edges the little white Viola lanceolata is very common.

8 miles N. W. Muskegon

On the sandy open ground near pond

I found:

Potentilla canadensis fl.
Pentstemon ^{*laevigatus*} *Digitalis* fl.

We then drove to the sandy flat towards Salisbury bridge, to a point where road from Bayfield (from south) comes in. At this

m.m.

point I collected a few *Viola*

We honor those who -
what they ^{give up} ~~seeks~~ ^{seeks} up -
We do well to honor them
But while so contemplating their heroism
Remember sitting of the living for some will
Every war a radical remedy
There will be war - until human nature is made over -
Takes time to make war -
also to keep peace -

Public affairs need attention
We do ^{pub} business carefully -

Fear of red
greater danger from
Chattelism

" *pedatifida* fl. not rare.
Potentilla canadensis fl. few
Phlox pilosa *bracteata* com.
Lithospermum canescens few fl.
Cerastium violaceum not rare fl.

m.m.
undulation in this part, especially
towards the pond, is of the dune
type, and sand is in evidence
in many places.

The Pontederis pond N. of
Bayfield has little water in
it. Around the edges the
little white Viola lanceolata
is very common.

8 miles N. W. Mukwonago

On the sandy open ground near pond
I found:

Potentilla canadensis fl.

Pentstemon ^{*laevigatus*} *Digitalis* fl.

We then drove to the sandy flat
towards Salisbury bridge, to a
point where road from Bayfield
(from south) comes in. At this

m.m.
point I collected a few Viola
and Senecio in low ground,
along edge of swamp.

We then started south towards
Bayfield, and on the flat found
a piece of very fine prairie.
This is a part of the flat,
brown cedar bottom, and is
rather low. *Zizia aurea* is
very common, & *Castilleja coccinea*

occurs in large patches. I collected:

Castilleja coccinea fl. very com.

Zizia aurea fl. very com.

Baptisia bracteata fl. several.

Syrinchium angustatum fl. very com.

Rhynchospora hirsuta fl. very com.

Viola hastata fl. rather com.

" *cucullata* fl. com.

" *pedatifida* fl. not rare.

Potentilla canadensis fl. few

Phlox pilosa fl. rather com.

Lithospermum canescens few fl.

Oxalis violacea not rare. fl.

m.m.

old dune N.W. Bay field
 We then drove to point N. of
 Bayfield + opposite Shunk cabbage bog.
 On the sandy knoll (old dune) near
 the road I collected:
Lithospermum | Gmelini

On the sandy ridge (or plateau)
 above + E. of Shunk cabbage bog
 I collected:
Syntherisma Bullenii R. (new)

In woods
Carya alba fl.
Rubus — fl.

1219

m.m.

N. 1/1 Bay

In the Shunk cabbage bog the
Sparganium was in fine leaf (also
 in the bog E.); and I found
Caltha palustris well in flower.
 A little *Sphagnum* is still visible.

We drove to Bayfield and I took
 train (at 6:40) for Muscatine.

m.m.
May 28, 1923 Monday

To Summit

In the timber & creek part (S.) there are few flowers; the openings show a few prairie plants.

Open places

Achillea millefolium Lind.
Ranunculus abortivus fl. - Lind.
Zizia aurea fl.
Senecio platensis fl.
Phlox pilosa fl.
Lithospermum canescens fl.
Tradescantia virginica fl. com locally
Salix humilis fl.
Oxycoccus montanus fl.
Serapias maritima fl.
Can't find *Geranium* (rather low)
Anemone canadensis fl. (rather low)

Boulders & thickets

Rubus occidentalis fl. S. of Summit
Salix longicarpa fl.
Prox Elae fr.
Cornus (stolonifera?) fl.
Serapias maritima fl.

On prairie - beyond Interurban track (N.)

+ *Lithospermum canescens* fl.
+ *Phlox pilosa* fl.
+ *Zizia aurea* fl.
+ *Cornus festuosa* fl.
+ *Oxycoccus montanus* fl.

m.m.

+ *Comandra angustata* fl.
+ *Salix* (golden-snell.) fr.
+ *Salix humilis* fr.
+ *Salix glabra* fl.
+ *Corylus americana* fl.
+ *Poa pratensis* fl.
+ *Stellaria media* fl.
+ *Polygonum aversa* fl. (few)
Anemone canadensis fl. (low rather)
+ *Hyssopus officinalis* fl. very com.
+ *Syrinchium canescens* fl.
Heuchera fl. - Lind.

Summit to Wilton - + and:

Achillea millefolium Lind.
Senecio platensis fl.
Psidium bracteatum fl.
Panicum canadense fl.
Antennaria neglecta fl. (rare)
Lithospermum canescens fl. (rare)

A lot of *Polygonum aversa* just S. of creek S. of Wilton.

Expenses - Olin, Manchester, Edgewood

Taxi - Iowa City	.25	
RR. to Cedar Rabin	.96	
Carfare to Marion	.18	
RR. to Oxford Jc.	1.26	2.65
	<u>.85</u>	
Expenses	\$4.50	
Dinner - Olin	.45	.45
	<u>4.93</u>	
	.25	
	<u>5.20</u>	

.25
.96
.18
1.26
.45
3.10

Pd. \$31.00 Oxford Jc.

Olin to Edgewood, via Oxford Jc.	\$2.43	
Supper at Monticello	.50	
May 31. Breakfast & room. Edgewood	1.25	
RR. to Delaware	.48	
Dinner - Delaware	.35	
Haircut & shave	.55	
Pop	.20	
RR. to Manchester	1.22	
Taxi	.25	
RR. to Waterloo	1.67	
Pd. Manchester	\$33.00	
Taxi - Waterloo	.35	
RR. to Cedar Rabin	1.90	10.36
RR. to Iowa City	.96	<u>13.46</u>

m.m.

Olin, Edgewood, Manchester

May 30-31, 1923

Left Iowa City at 7:30 am. Took the Marion car for Marion, & at 10 am. Took train for Oxford Jc. Found that return train was taken off & I cannot get back to Olin by train.

The day is cloudy & quite sultry. Phlox pilosa (abundant in places) is all of the red form.

Ladecation is also locally common. Reached Oxford Jc. at 10:52 am. & stopped at Hodoval's drugstore. Hodoval was in my Pharmacy botany class. He drove me to Olin.

Stopped at hotel & took meal at restaurant.

near Oxford ^{Wapahinic} (cross river to Oxford
Mills & then follow river towards Olin)
the bottom are quite swampy.
A large amount of *Acorns calamus*
is found here.

Had exercises at Olin in Opera
house - I talked about an hour
on citizenship - Mary - don't know how
to draw it - Mother - Sweet Angel of hymn.
Courts - not of justice - but game.
Sacrifices of soldiers, - plant hopes

Left Olin at 4:22 for Oxford Jc
In Jones co. along crest p. to Jc. W. mountain
Olin to Oxford Jc. - near Olin - bottom land
woods & swamps.

On prairie: (rather poor strips)
a20 + *Succisa pratensis* fl.
a20 + *Poa pratensis* fl.
a2 + *Potentilla canadensis* fl. (sandy)
Lithospermum *pratensis* fl.

a20 + *Geranium maculatum* fl. ~~not very~~
a20 + *Phlox pilosa* fl.
+ *Oenothera* *hirta* fl.
Rumex acetosella - fl. pest in fields.
a20 + *Lithospermum canadense* fl.
a20 + *Antennaria monarda* - all fl.
a20 + *Equisetum arvense* sterile
+ *Heuchera hispida* fl. (low)
a2 + *Anemone canadensis* fl. (low)
Fragaria virginiana fl.

Oxford Jc. to Wyoming + and: ^{not very}
Lysichiton ciliatus fl. fr. ^{good}
a2 *Capella* *fruticosa* fl.
Hemerocallis fl.
a o *Sisyrinchium campitric* fl.
a20 *Guzia aurea* fl.
Saxifraga pennsylvanica (wet)

Wyoming to Center Jc o and:
Erigeron annuus fl. (low)
Ranunculus macranthus fl. (low)
a2 *Salix humilis* fl. (low)
Thalictrum dasycarpum fl.
Center Jc. to Scotch Grove 2 and:
Cornus amomum fl.
Hypoxis *virginica* fl.
Scotch Grove to Marksville a and:
not very good.

Jones co. (con.)

From Monticello to Junction Butch:

This is prairie:

Poa pratensis fl.

Lithospermum canescens fl.

Phlox pilosa fl.

Achillea millefolium Buss.

Equisetum arvense. sterile

Lithospermum Gmelini fl. (sandy)

Hypoxis hirsuta fl.

Baptisia bracteata fl.

Antennaria canadensis old fl.

Potentilla canadensis fl.

Rumex crispus fl.

Salix humilis fl.

Senecio platensis fl.

Taraxacum fl.

Comandra umbellata fl.

Capsella bursa-pastoris fl. fr.

Ceanothus americanus fl.

Corylus americana fl.

Dodecatheon meadia fl.

Antennaria plantaginifolia fl.

Delaware co.

Co. line to Hopkinton (prairie)
Kansan

Salix humilis fl.

Geranium maculatum fl.

Cardamine hirsuta fl. (low)

Caltha palustris fl. low

Dodecatheon meadia fl.

Potentilla canadensis fl.

Hypoxis hirsuta fl.

Pradialia canadensis fl. fr.

Guzia aurea fl.

Castilleja coccinea fl. (yellow) very com.

Saxifraga peruviana fl. (very com.)

Phlox pilosa fl.

Lithospermum canescens fl.

Poa pratensis fl.

Achillea millefolium Buss.

Comandra umbellata fl.

Antennaria ~~canadensis~~ fl. fl.

Plantaginifolia fl.

The territory from Hopkinton to Delhi

is along river & broken & interrupted

Lithospermum Gmelini fl. (sandy)

Ranunculus (Macouni?) fl. low

Polygala sanguinea fl. Rocky slopes

There are sandy terraces!

See, with prairie flora

Some of it good, 1/2 way to Delhi

Onoclea struthifera - in open along R.R.
 also pieces of rocky slopes
 with scant prairie flora.
 Scrophularia leporella fl.
 Senecio aureus fl.
 From Delhi on we are higher
 up again, - at Delhi near top.

Near Delhi
 Euphorbia cyathophora fl. & scape,
 more or less broken, & at first
 mixed prairie & forest. Then
 upland rolling prairie, - rather
 gently rolling. Delaware is on this.
 Viola pedata fl. patch on prairie.
 (A mile out from Delaware.)

Delaware to Delhi - upland prairie

Baptisia bracteata fl. Dowan
 Poa pratensis fl.
 Hypoxis hirsuta fl.
 Phlox pilosa fl.
 Zizia aurea fl.
 Lithospermum canescens fl.
 Antennaria ^{neglecta} ~~neglecta~~ fl.
 Dodecatheon meadia fl.
 Salix humilis fl.
 Castilleja ~~canina~~ (yellow) fl.

P. similis canadensis mostly fr.
 Onoclea to Greely - upland prairie

Danthonia carota fl.
 Horse radish fl.
 + Zizia aurea fl.
 + Salix humilis fl.
 Phlox pilosa fl.
 Achillea millefolium but
 + Lithospermum canescens fl.
 Anemone canadensis fl.
 Geranium maculatum fl. (green)
 + Dodecatheon meadia fl.
 + Saxifraga pennsylvanica but
 Greely to Co. line at Edgewood & ends
 upland prairie. Almost too dark to see.

Baptisia bracteata fl.

Reached Edgewood at about
 8⁰⁰ P.M. & went to hotel, & to bed early.

May 31, 1923, Thurs.

Started out at 4 AM, & walked about a mile, along RR., N. & W. of Edgewood. There is quite a bit of undisturbed prairie & long along the RR., and about a mile out, a nice bit of rather low prairie on S.W. side, now conspicuously covered with yellow *Castilleja coarctata*, & among them a few with a pink blush. Hundreds of them paint the prairie!

There is here along the RR. much blanding of long & prairie. ¹*Eriophorum*, ²*Phlox pilosa*, ³*Hypoxis hirsuta* and ⁴*Lithospermum canescens* are mingled, - 2 & 4 only scattered.

On the swells the *Eriophorum*, *Hypoxis*, *Saxifraga*, etc. are lacking, and *Phlox*, *Lithospermum*, *Comandra*, etc. hold sway.

clay loam

Low ground:

<i>Eriophorum</i>	tr.
<i>Saxifraga pennsylvanica</i>	fl.
<i>Carex</i>	fl. & fr.
<i>Carex</i>	fl. & fr.
<i>Carex</i>	fl.
<i>Viola</i> (<i>canadensis</i> ?)	fl.
<i>Thalictrum</i>	fl. (prairie)
<i>Oxalis</i> <i>stricta</i>	fl. & fr.
<i>Aspidium</i>	fr.
<i>Thelypteris</i>	fr.

Prairie

<i>Lithospermum</i>	<i>canescens</i>	fl.	not rare
<i>Phlox</i>	<i>pilosa</i>	fl.	scattered
<i>Dracopis</i>	<i>virginiana</i>	fl.	local. com.
<i>Hypoxis</i>	<i>hirsuta</i>	fl.	(much of it low)
<i>Sisyrinchium</i>	<i>canadense</i>	fl. & fr.	com.
<i>Comandra</i>	<i>pumellata</i>	fl.	very com. locally
<i>Castilleja</i>	<i>coarctata</i> (yellow)	fl.	- rather low.
<i>Viola</i>	<i>pedata</i>	fl.	-(not sandy) frequent.
"	<i>hastata</i> ?	fl.	scattered
<i>Oxalis</i>	<i>violacea</i>	fl. & fr.	not com.
<i>Gizya</i>	<i>aurum</i>	fl.	com.
<i>Hemlock</i>	<i>hirsuta</i>	fl.	- not many
<i>Antennaria</i>	<i>meadii</i>	fl.	- old fl.
<i>Salix</i>	<i>humilis</i>	fr.	(golden) fr.

m.m.

Dodecatheon meadia fl. quite com.
Achillea millefolium bud. - com.
Baptisia bracteata fl. (higher grow)
Senecio platensis? fl. (often rather low)
Echinium aureum sterile + few fertile
Baptisia senegaliensis - buds.
Carex verticillata fl.
Rhus glabra lf. old fr.
Corylus americana lf.
Carex - fr. (all)
Spiraea - old fr. (along RR embankment)
 ? *Pedicularis canadensis* fl. + fl. rare
Anemone canadensis fl. (rather low)

I also saw:
Sua fruticosa fl.
Taraxacum - fl. + fr.
Lippedia capitata old fr.
Equisetum zosterifolium lf.
Helianthus grosseserratus lf.
Rubus occidentalis fl. along RR.
Elymus canadensis old fr.

m.m.

Delaware to

Edgemoor to Greeley

Castilleja crimson-yellow fl.
Dodecatheon meadia fl.
Viola pedata - fl. - a large patch

Greeley to Oneida

Ranunculus abortivus (all) fl. - low.

Oneida to Delaware

Ranunculus abortivus? fl. E.
Pedicularis canadensis fr. com.
Viola pedata fl. - not rare
Castilleja crimson yellow
 (low meadow in prairie near RR)
Hypoxis lf. + fl. - very common.
Senecio platensis fl. locally abundant
Baptisia bracteata fl.

Started W. from Delaware along
 the Ill. Cent. Ry, and walked
 about a mile. Some parts
 of the knolls are rocky (barren)
 and there is more or less
 sand all along, & *Viola*
pedata & *Lithospermum Gmelini*
 occur in such places.

m.m.

I collected:

- Anemone patens* var. fr.
- " *cylindrica* - bud
- " *canadensis* fl. - rather low.
- Pedicularis canadensis* fr. & fl.
- Phlox pilosa* fl.
- Lithospermum canescens* fl.
- " *laevis* fl. (sandy)
- Oxalis violacea* fl. fr.
- Sisyrinchium canescens* fl. & fr.
- Comandra umbellata* fl.
- Hypoxis hirsuta* fl.
- Fragaria virginiana* fl.
- Henckelia hirsuta* fl.
- Dodecatheon nudicaule* fl.
- Euphorbia corollata* just opening
- Baptisia bracteata* fl.
- Tradescantia* fl.
- Potentilla canadensis* fl.

m.m.

I then went S. along the C. M. & P.
Ry. 3 miles (to within 1 mi.
of Delhi).

This is rolling, & cuts show
a lot of sand, etc. (Buchanan?)

I collected:

- Viola pubescens* (sandy) fl.
- " *pedatifida* fl.
- Oxalis violacea* fl.
- Sisyrinchium canescens* fl. fr.
- Ranunculus acris* fl. (low)
- Saxifraga pennsylvanica* fl. (")
- Phlox pilosa* fl.
- Lithospermum canescens* fl.
- " *laevis* fl. (sandy)
- Kirria amplexicaulis* bud.
- Zizia aurea* fl.
- " *cordata* fl.
- Salix* - fr.
- Anemone canadensis* fl.
- Senecio platensis* fl.
- Carex*
- "
- Tradescantia* fl.
- Henckelia hirsuta* fl.
- Potentilla canadensis* fl.

To Mediapolis, June 1, 1923 - Fri.
 Left Iowa City for W. Liberty at 2:28 PM.
 Left W. Liberty at 3:30 PM.
 Day quite bright but misty, windy.
Muscutine co. (E. side of RR)
West Liberty to Nichols.

- Lithospermum canescens fl. few
- Phlox pilosa fl. - ^{Thlaspi an}
- Flat-fruited Mustard fr. along RR.
- Poa pratensis fl. along RR, etc.
- Sisyrinchium ciliatum fl.
- ? • Horseradish - blue in fl. - along RR.
- Heuchera hispida fl.
- Anemone canadensis fl. rather low
- Silphium perfoliatum fl.
- " laciniatum fl.
- Baptisia fruticulosa fl.
- Equisetum arvense sterile - along RR.
- Scrophularia leporella fl.
- Oxybaphus myrianthus buds - along RR.
- ? • Drooping grass (aroid) fl. fr.
- Senecio altissimus fl.
- Taraxacum fr. - along RR, etc.
- Lepidium apetalum fl. fr. along RR.
- ? • Geranium maculatum fl. near woods.
- Achillea millefolium buds.
- Thalictrum dasycarpum buds.
- Zizia aurea fl.
- Galium aparine fl.
- Asparagus officinalis fl. along RR.

Expenses - Mediapolis

RR. to Mediapolis
 RR. to Iowa City

\$ 2.24
 2.24

m.m.

June 2, 1923 - Sat. - To Muskegon

Arctic, more or less cloudy.

Left at 2:30 P.M.

Along RR 2, - To Downey, (S. side)

- Sorghastrum nutans* fl.
- Equisetum arvense* fr. RR
- Pastinaca sativa* fl. RR
- Poa pratensis* fr. RR, etc.
- Phlox pilosa* fl. mostly white
- Hemlock* fr. 1 bush
- Sida spicata* fl.
- Rumex* fl. (low)
- Aquilegia canadensis* fl. (low)
- Geranium platense* fl. (wax)
- Geranium macranthum* fl. (wax)
- Zizia aurea* fl.
- Lithospermum canescens* fl.

m.m.

Wilton To Summit (W. side RR)

- Baptisia leucantha* fl.
- + *Phlox pilosa* fl.
- + *Zizia aurea* fl.
- Polygonum aviculare* fl.
- + *Corylus americana* fl.
- + *Rhus glabra* fl.
- + *Sisyrinchium campotru* - fr. fl.
- + *Lithospermum canescens* - fl. (rather RR)
- + *Satya humilis* fr. + fl.
- Antennaria monarda* fl.
- + *Poa pratensis* fr.
- Rubus alleghaniensis* fl.
- Senecio platensis* fl.
- + *Sida spicata* fl.
- + *Comandra umbellata* fl.
- Potentilla canadensis* fr. (few fl.)
- + *Achillea millefolium* buds
- Smilax herbacea* buds
- + *Hypoxis hirsuta* fl. (closed -)
- + *Hebeclera hispida* fl.
- Gris periclymenum* fl.
- + *Sedum spectabile* fl. (closed)
- Krugia amplexicaulis* fl. (closed)
- Baptisia bracteata* fl.
- Zizia aurea* fl.

Summit for 2 m. out - + road:

- Aquilegia canadensis* fl.
- Geranium macranthum* fl.
- Thalictrum dasycarpum* buds
- Parthenium integrifolium* fl.
- Saxifraga pennsylvanica* fl. (low)

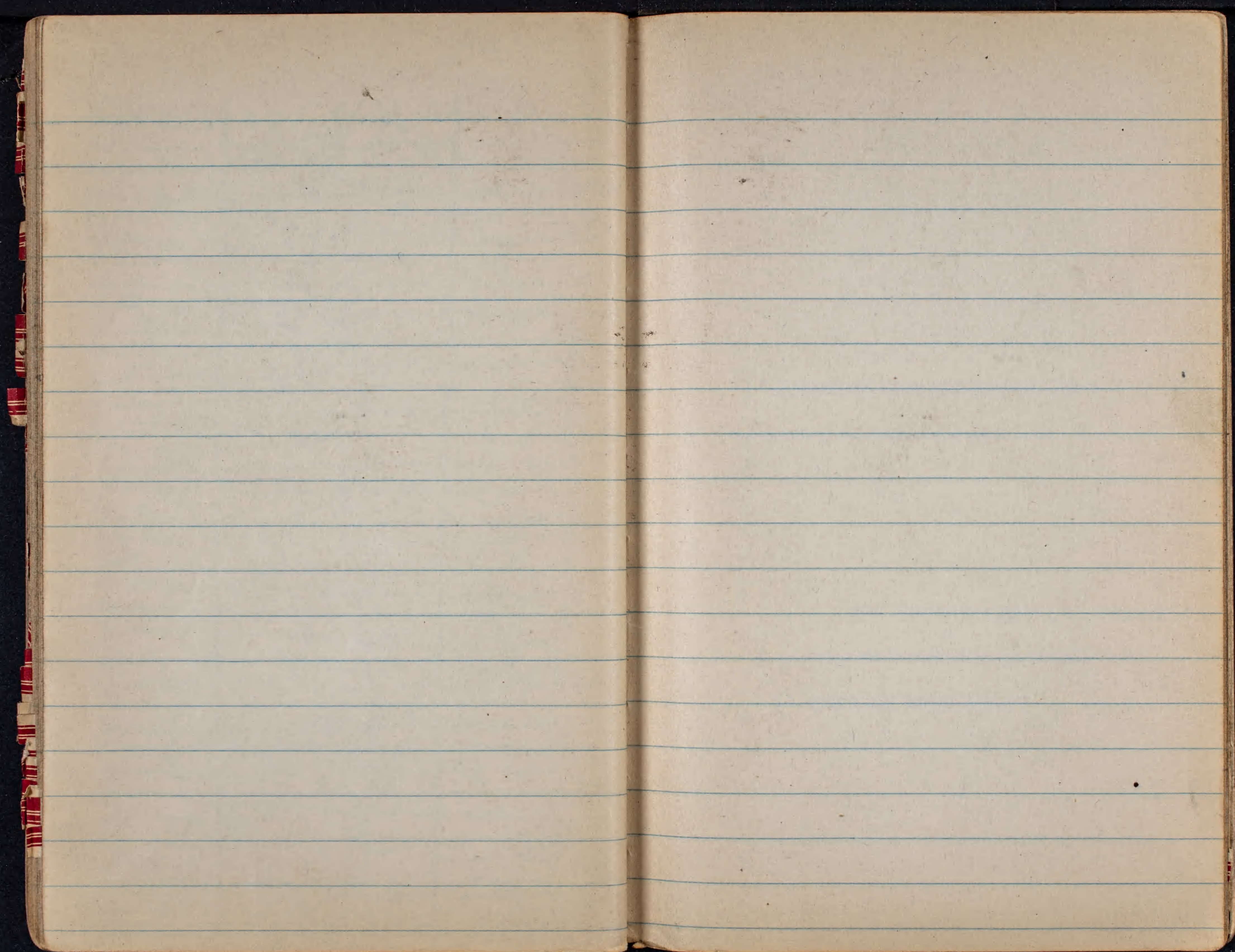
Sat. July 14, 1923

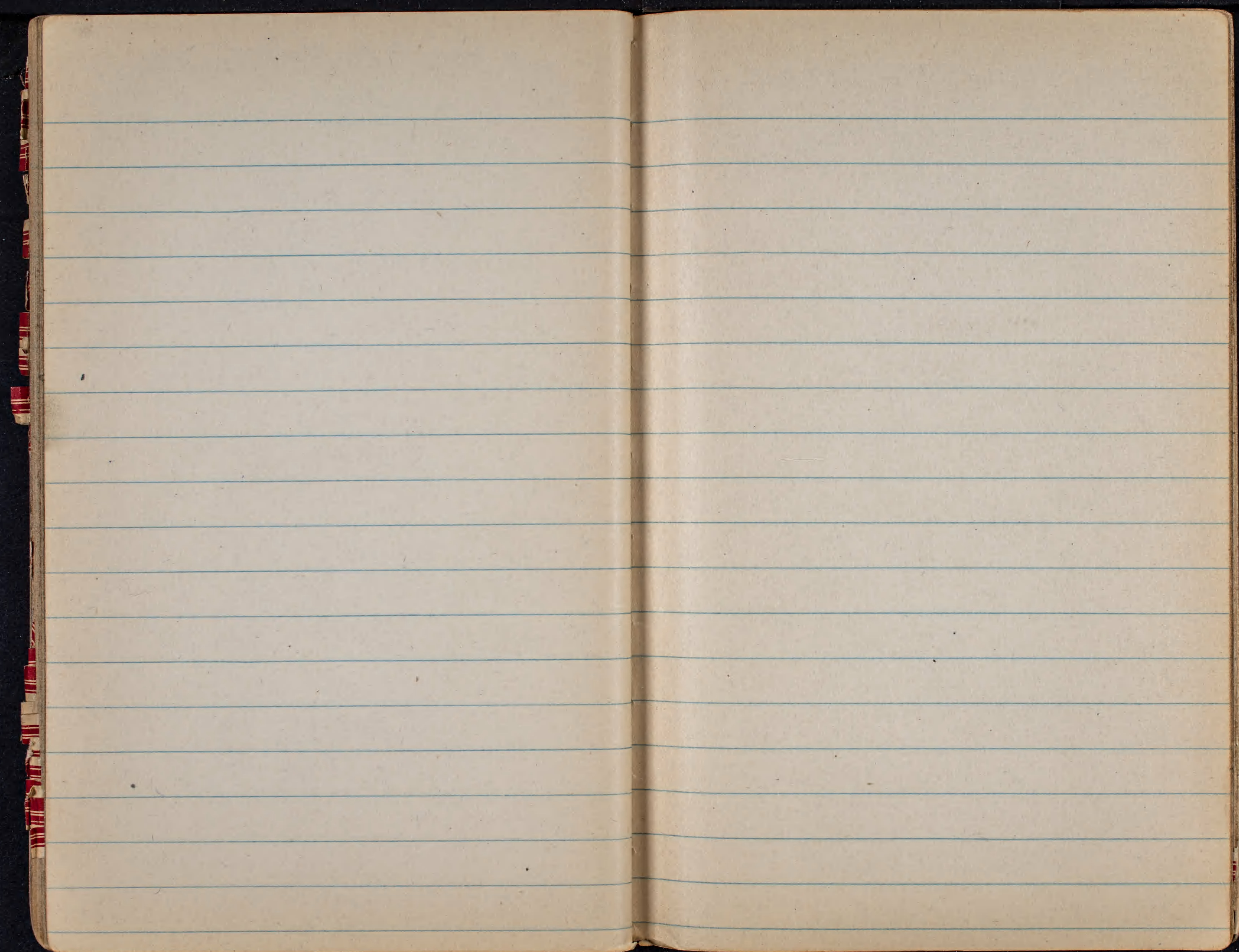
Sandy prairie - S. of Iowa City (Wind)

Desmodium illinoense fl.
Oenothera biennis fl.
Erigeron annuus fl. com.
Chenopodium leptophyllum fl.
Euphorbia corollata fl.
Lepidium apetalum fr.
Asclepias verticillata fl. bud.
Physalis pruinosa fl.
Panicum tenuissimum fr.
Agrostis hyemalis fr.
Lepidogon capitata fl.
Achillea millefolium fl.
Ambrosia artemisiifolia fl.
Carex pectinacea fr. (d.)
Strophostyles helvola fl.
Erigeron canadensis fl. (disturbed)
Euphorbia corollata fr.
Comolobos rufus fl.
Saxia chamissoi fl.
Rosa pratincola fr. (old field)
Asclepias syriaca fl.
Euphorbia corollata fl.
Helianthus annuus fl. (fl.)
Polygonum convolvulus fl.
Chenopodium album fl. (on asphalt hill)
Acyrocladus myrtaginis fr.
Senecio jacobinae fl. (on asphalt hill)
Oenothera biennis fl. (on asphalt hill)
Antennaria veridica fl.
Stachys palustris fl.
Elymus canadensis fl.

- Lactuca ludoviciana* lf.
Monarda mollis fl.
Aster paniculata lf.
Muhlenbergia racemosa lf.
Ambrosia trifida lf.
Hibiscus trionum fr.
Erigeron virginicus lf.
Oxalis corniculata fl.
Solidago canadensis lf.
Plantago rugelii fl.
Antennaria ludoviciana lf.
Antennaria plantaginifolia lf.
Aster multiflorus lf.
Lepachys pinnata fl.
Poa pratensis old.
Cerastium minus fl. fr.
Asperula canadensis lf. fr. fl.
Lactuca canadensis fl.
 50 *Aquilegia alba* fr.
Aster novae angliae lf.
Nephus interruptus bud fl.
Eupragium pinnatifidum fl.
Andropogon furcatus bud.
Tradescantia reflexa fr.
Rudbeckia hirta fl.
Helianthus scaberrimus
Ampelopsis vitacea lf.
Coccyzus erythrophthalmus lf.
 60 *Sparganium angustifolium* fl. RR.
Cirsium discolor lf. RR.
Solidago nemoralis lf.
Equisetum hyemale intermedium.
Stipa spartea old fr.
Helianthus annuus lf.
Cirsium discolor lf.
Asclepias physocarpa fr.

- Ruellia ciliosa* fl.
Scrophularia leporella fr.
Hesperis matronalis fl. RR.
 70 *Petalostemon amurensis* fl.
Guzmania fr.
Comarostaphylis umbellata lf.
Helianthus scaberrimus lf.
Veronica virginica fl.
Polygonum bistorta old fr. (pale)
Nileus stellata fl.
Prunella pallida fl.
Prunella americana lf. (small)
Petalostemon purpureus fl.
 80 *Prunella americana* old fl.
Vitis vulpina lf.
Salix humilis lf.
Coccyzus erythrophthalmus fr.
Corylus americana lf.
Neranthus hispida old fr.
Helianthus occidentalis bud.
Potentilla arguta fl.
Rosa cristata old.
Oenothera biennis lf.
 90 *Eriogonum fasciculatum* bud.
Solidago rigida lf.
Sambucus racemosa lf.
Onoclea sensibilis fr. fl.
Rhus glabra lf.
 95 *Aster laevis* bud.
Solidago speciosa lf.
Stemodia ciliolata fl.
Aster laevis lf.
Panicum hirsutum fr.
Erigeron philadelphicus fr. 1 clump.
Verbena stricta fl.
Guzmania fr.
Syrphium campense fr.





May 19-1923 - Sat.

E. of Iowa City, with Ecology class.

Commencing at same place & country
hole-sections, going E. - to E. line of city

[illegible]

May 17 (Th.) New London. What Next?
Lve. Iowa City ¹²¹ am. Muscat. lve. am. Fairfield lve. am. New London

May 18 (Fri.) Perry. The Citizen & the School.
Lve. Iowa City ¹²¹ am. Des Moines lve. am. Perry. 156 mi.
11:17 am. 12:25 pm. 312 mi.
4:35 am. 8:10 8:17 am. 9:08 am.
Lve. Perry ³⁵ am. Des Moines am. Iowa City.
8:35 am. 9:50
5:37 am. 7:00
3:56 pm. 5:15

The Citizen and the School.
May 21 (Mon.) Arlington 88 115 mi.
Lve. Iowa City ²⁷ am. Cedar Rap. lve. am. Arlington
5:45 am. 9:27 am.
5:00 pm. 8:33 pm.
Lve. Arlington am. Cedar Rap. lve. am. Iowa City
6:48 am. 10:55
4:32 pm. 8:55.

May 22 (Tue.) Lone Tree. What Next?

May 23 (Wed.) Riverside. What Next?
Lve. Iowa City ¹⁵ am. Riverside lve. am. Iowa City
4:00 pm. 5:09 10:15 am. 11:15.

May 24 (Thurs.) Montour.
Lve. Iowa City ²⁷ am. Cedar Rapids lve. am. Montour
2:40 pm. 5:01

Lve. Montour ⁵⁹ am. Cedar Rapids
9:41 pm. 11:55.

The Citizen & the School.
May 25 (Friday) Oxford Junction.
Lve. Iowa City am. Cedar Rap. lve. am. Oxford Jc.
3:00 pm. 4:45 pm.

Lve. Oxford Jc. am. Marion lve. am. Cedar Rap. lve. am. Ia. City.
10:45 pm. 11:32.

May 30 (Wed.) Olin. Memorial Day.

May 31 (Th.) - Manchester.

Supt. W. L. Rhea Is a High School Educ. Practitioner.
June 1 (Fri.) Mediapolis.

16. 46.
Lve. Iowa City ^{16.} am. Wat. Lib. Lve. ^{46.} am. Mediapolis.

2:30 pm. 3:04 3:30

5:29.

Lve. Mediapolis am. W. Lib Lve. am. Iowa City

5:15 am. 6:50 7:07 am.

7:30

10:10 pm 11:55

For painting over wounds
of trees, use 3 parts water-
glass (for preserving eggs) & 1 part
water. Clean & smooth surface

